

***Amendments to the Claims***

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-20. *(Canceled)*

21. *(Currently amended)* A computer-readable medium having instructions stored thereon, ~~computer-executable instructions~~ that, if executed by a ~~computer~~ computing device, cause the ~~computer~~ computing device to perform a ~~method~~ operations for enabling a user to organize and analyze information, the ~~method~~ operations comprising:

searching a first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the search functions comprise ~~at least one~~ or more of the following:

morphological functions;

lexical functions;

syntactic functions;

semantic functions;

discourse functions;

pragmatic functions;

full text functions;

Boolean functions; [[and]] or

clustering functions;

analyzing a third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the third group of documents is not a subset of the first group of documents, and wherein the fourth group of documents is a subset of the third group of documents;

wherein the analytical functions comprise at least one or more of mapping functions, citation functions, plot lineage functions, [[and]] or reporting functions; and

selectively iterating at least one or more of the searching step [[and]] or the analyzing step, wherein each iteration of the searching step or the analyzing step is performed using as input the second group of documents, the fourth group of documents, or output of a previous iteration;

wherein said selectively iterating step includes:

performing an additional iteration of the searching step using as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

performing an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

22. *(Currently amended)* The computer-readable medium of claim 21, the operations further comprising:

making ~~at least~~ one or more of the second group or the fourth group a permanent group.

23. *(Previously presented)* The computer-readable medium of claim 21, wherein the searching comprises:

performing a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

24. *(Currently amended)* The computer-readable medium of claim 21, the operations further comprising:

performing a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

25. *(Previously presented)* The computer-readable medium of claim 24, wherein relevancy visualization analysis operates according to a rule book.

26. *(Previously presented)* The computer-readable medium of claim 25, wherein the rule book comprises patent specific rules.

27. *(Currently amended)* The computer-readable medium of claim 21, the operations further comprising:

generating an object corresponding to a search process component or an analyze process component of a work flow represented by the searching, analyzing, and selective iterating.

28. *(Previously presented)* The computer-readable medium of claim 27, wherein an object is generated using object definitions.

29. *(Previously presented)* The computer-readable medium of claim 28, wherein the object definitions comprise:

- a Boolean operation object definition;
- a corporate family operating object definition;
- an export object definition;
- a folder object definition;
- an import object definition;
- a list exploder operation object definition;
- a list object definition;
- a query object definition; or
- a patent family dedupe object definition.

30. *(Currently amended)* The computer-readable medium of claim 27, the operations further comprising:

- saving the object.

31. *(Currently amended)* The computer-readable medium of claim 27, the operations further comprising:

re-executing the work flow by traversing the object.

32. *(Currently amended)* The computer-readable medium of claim 27, the operations further comprising:

creating a new work flow by modifying the object.

33. *(Currently amended)* The computer-readable medium of claim 21, the operations further comprising:

annotating ~~at least one~~ or more of the first group, third group, or any portion of any document contained in the first group or the third group.

34. *(Currently amended)* The computer-readable medium of claim 21, wherein the first group of documents is from ~~at least one~~ or more of a database, an external source, or the Internet.

35. *(Currently amended)* A computer-implemented method of organizing and analyzing information, the method comprising:

initiating a search of a first group of documents according to one or more selected search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

initiating an analysis of a third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the third group of documents is not a subset of the first group of documents, and wherein the fourth group of documents is a subset of the third group of documents;

wherein the one or more analytical functions are performed by a ~~computer~~computing device, and wherein the one or more analytical functions are selected from a group comprising mapping functions, citation functions, plot lineage functions, ~~[[and]]~~or reporting functions; and

selectively iterating ~~at least one~~ or more of the searching step ~~[[and]]~~or the analyzing step, wherein each iteration of the searching step or the analyzing step is performed using as input the second group of documents, the fourth group of documents, or output of a previous iteration;

wherein said selectively iterating step includes:

performing an additional iteration of the searching step using as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

performing an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

36. *(Currently amended)* The computer-implemented method of claim 35, further comprising:

making ~~at least~~ one of the second group or the fourth group a permanent group.

37. *(Previously presented)* The computer-implemented method of claim 35, wherein the initiating a search comprises:

initiating a performance of a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

38. *(Previously presented)* The computer-implemented method of claim 35, further comprising:

initiating a performance of a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

39. *(Previously presented)* The computer-implemented method of claim 38, wherein relevancy visualization analysis operates according to a rule book.

40. *(Previously presented)* The computer-implemented method of claim 39, wherein the rule book comprises patent specific rules.

41. *(Previously presented)* The computer-implemented method of claim 35, further comprising:

initiating a generation of an object corresponding to a search process component or an analysis process component of a work flow represented by the initiating of a search, the initiating of an analysis, and the selective initiating of at least one iteration.

42. *(Previously presented)* The computer-implemented method of claim 41, wherein an object is generated using object definitions.

43. *(Previously presented)* The computer-implemented method of claim 42, wherein the object definitions comprise:

a Boolean operation object definition;  
a corporate family operating object definition;  
an export object definition;  
a folder object definition;  
an import object definition;  
a list exploder operation object definition;  
a list object definition;  
a query object definition; or  
a patent family dedupe object definition.



44. *(Previously presented)* The computer-implemented method of claim 41, further comprising:

initiating a save of the object.

45. *(Previously presented)* The computer-implemented method of claim 41, further comprising:

initiating a re-execution of the work flow, wherein re-execution is accomplished by traversing the object.

46. *(Previously presented)* The computer-implemented method of claim 41, further comprising:

creating a new work flow by modifying the object.

47. *(Currently amended)* The computer-implemented method of claim 35, further comprising:

annotating ~~at least one~~ or more of the first group, third group, or any portion of any document contained in the first group or the third group.

48. *(Currently amended)* The computer-implemented method of claim 35, wherein the first group of documents is from ~~at least one~~ or more of a database, an external source, or the Internet.

49. *(Currently amended)* A system, comprising:

a processor; and

a memory having instructions stored thereon, that, in response to execution by the processor, cause the processor to organize and analyze information, the instructions comprising: [[,]]

instructions for wherein the processor is capable of searching a first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the one or more search functions are selected from a group comprising morphological functions, lexical functions, syntactic functions, semantic functions, discourse functions, pragmatic functions, full text functions, Boolean functions, [[and]] or clustering functions;

instructions for wherein the processor is capable of analyzing a third group of documents according to one or more selected analytical functions to output a fourth group of documents, wherein the third group of documents is not a subset of the first group of documents, and wherein the fourth group of documents is a subset of the third group of documents;

instructions for wherein the processor is capable of selective iteration of selectively iterating at least one or more of the searching step [[and]] or the analyzing step, wherein each iteration of the searching step or the analyzing step

is performed using as input the second group of documents, the fourth group of documents, or output of a previous iteration;

instructions for ~~wherein the processor is capable of performing~~ an additional iteration of the searching step using as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

instructions for ~~wherein the processor is capable of performing~~ an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

50. *(Currently amended)* The system of claim 49, wherein the ~~processor is capable of~~ instructions further comprise instructions for making at least one or more of the second group or the fourth group a permanent group.

51. *(Currently amended)* The system of claim 49, wherein the ~~processor is capable of~~ instructions further comprise instructions for performing a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

52. *(Currently amended)* The system of claim 49, wherein ~~processor is capable of~~ the instructions further comprise instructions for performing a relevancy visualization

analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

53. *(Previously presented)* The system of claim 52, wherein relevancy visualization analysis operates according to a rule book.

54. *(Previously presented)* The system of claim 53, wherein the rule book comprises patent specific rules.

55. *(Currently amended)* The system of claim 49, wherein ~~processor is capable of the~~ instructions further comprise instructions for generating an object corresponding to a search process component or an analyze process component of a work flow represented by the searching, the analyzing, and the selective iteration.

56. *(Previously presented)* The system of claim 55, wherein an object is generated using object definitions.

57. *(Previously presented)* The system of claim 56, wherein the object definitions comprise:

- a Boolean operation object definition;
- a corporate family operating object definition;
- an export object definition;
- a folder object definition;

an import object definition;  
a list exploder operation object definition;  
a list object definition;  
a query object definition; or  
a patent family dedupe object definition.

58. *(Currently amended)* The system of claim 55, wherein the ~~processor is capable of~~  
instructions further comprise instructions for saving the object.

59. *(Currently amended)* The system of claim 55, wherein the ~~processor is capable of~~  
instructions further comprise instructions for re-executing the work flow by traversing  
the object.

60. *(Currently amended)* The system of claim 55, wherein the ~~processor is capable of~~  
instructions further comprise instructions for creating a new work flow by modifying the  
object.

61. *(Currently amended)* The system of claim 49, wherein the ~~processor is capable of~~  
instructions further comprise instructions for annotating one of the first group, third  
group, or any portion of any document contained in the first group or the third group.

62. *(Currently amended)* The system of claim 49, wherein the first group of  
documents is from ~~at least one~~ or more of a database, an external source, or the Internet.

63. *(Currently amended)* A computer program product having instruction control logic stored thereon that, ~~if executed in response to execution by a computer computing device~~, cause the ~~computer computing device~~ to organize and analyze ~~perform a method for organizing and analyzing~~ information, the instructions method ~~method~~ comprising:

instructions for searching a first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the one or more search functions are selected from a group comprising morphological functions, lexical functions, syntactic functions, semantic functions, discourse functions, pragmatic functions, full text functions, Boolean [[ ]] functions, [[and]] or clustering functions;

instructions for analyzing a third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the third group of documents is not a subset of the first group of documents, and wherein the fourth group of documents is a subset of the third group of documents;

wherein the one or more analytical functions are selected from a group comprising mapping functions, citation functions, plot lineage functions, [[and]] or reporting functions; and

instructions for selectively iterating ~~at least one or more~~ of the searching step [[and]] or the analyzing step, wherein each iteration of the searching step or

the analyzing step is performed using as input the second group of documents,  
the fourth group of documents, or output of a previous iteration;

wherein said selectively iterating includes:

performing an additional iteration of the searching step using as input the  
second group of documents, to output a fifth group of documents, wherein the  
fifth group of documents is a subset of the second group of documents; and

performing an additional iteration of the analyzing step using as input the  
fourth group of documents, to output a sixth group of documents, wherein the  
sixth group of documents is a subset of the fourth group of documents.

64. *(Currently amended)* The computer program product of claim 63, the instructions  
further comprising:

instructions for making at least one or more of the second group or the  
fourth group a permanent group.

65. *(Currently amended)* The computer program product of claim 63, wherein the  
instructions for searching further comprise~~comprises~~:

instructions for performing a cluster analysis of the first group of  
documents to create a hierarchical arrangement of groups containing documents  
from the first group, wherein the second group is one of the hierarchical  
arrangement of groups.

66. *(Currently amended)* The computer program product of claim 63, the instructions further comprising:

instructions for performing a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

67. *(Previously presented)* The computer program product of claim 66, wherein relevancy visualization analysis operates according to a rule book.

68. *(Previously presented)* The computer program product of claim 67, wherein the rule book comprises patent specific rules.

69. *(Currently amended)* The computer program product of claim 63, the instructions further comprising:

instructions for generating at least one or more object corresponding to a search process component or analyze process component of a work flow represented by the searching~~search~~, the analyzing~~analyze~~, and the selectively~~iterating~~selective iteration.

70. *(Previously presented)* The computer program product of claim 69, wherein an object is generated using object definitions.



71. *(Previously presented)* The computer program product of claim 70, wherein the object definitions comprise:

- a Boolean operation object definition;
- a corporate family operating object definition;
- an export object definition;
- a folder object definition;
- an import object definition;
- a list exploder operation object definition;
- a list object definition;
- a query object definition; or
- a patent family dedupe object definition.

72. *(Currently amended)* The computer program product of claim 69, the instructions further comprising:

instructions for saving the object.

73. *(Currently amended)* The computer program product of claim 69, the instructions further comprising:

instructions for re-executing the work flow by traversing the object.

74. *(Currently amended)* The computer program product of claim 69, the instructions further comprising:

instructions for creating a new work flow by modifying the object.

75. *(Currently amended)* The computer program product of claim 63, the instructions further comprising:

instructions for annotating one of the first group, third group, or any portion of any document contained in the first group or the third group.

76. *(Currently amended)* The computer program product of claim 63, wherein the first group of documents is from ~~at least one~~ or more of a database, an external source, or the Internet.

77. *(Currently amended)* A ~~computer implemented~~ computing device including a computer-readable medium having ~~instruction control logic~~ instructions stored thereon that, if ~~executed in response to execution~~ by the ~~computer implemented~~ computing device, cause the ~~computer implemented~~ computing device to perform operations ~~organize and analyze information by a method~~ comprising:

searching a first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the one or more search functions are selected from a group comprising morphological functions, lexical functions, syntactic functions, semantic functions, discourse functions, pragmatic functions, full text functions, Boolean functions, [[and]] ~~or~~ clustering functions;

analyzing a third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the third group of documents is not a subset of the first group of documents, and wherein the fourth group of documents is a subset of the third group of documents;

wherein the one or more analytical functions are selected from a group comprising mapping functions, citation functions, plot lineage functions, [[and]]or reporting functions; and

selectively iterating ~~at least~~ one or more of the searching step [[and]]or the analyzing step, wherein each iteration of the searching step or the analyzing step is performed using as input the second group of documents, the fourth group of documents, or output of a previous iteration;

wherein the selectively iterating includes:

performing an additional iteration of the searching step using as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

performing an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

78. *(Currently amended)* The device of claim 77, the operations further comprising:

making ~~at least~~ one or more of the second group or the fourth group a permanent group.

79. *(Previously presented)* The device of claim 77, wherein the searching comprises:

performing a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

80. *(Currently amended)* The device of claim 77, the operations further comprising:

performing a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

81. *(Previously presented)* The device of claim 80, wherein relevancy visualization analysis operates according to a rule book.

82. *(Previously presented)* The device of claim 81, wherein the rule book comprises patent specific rules.

83. *(Currently amended)* The device of claim 77, the operations further comprising:

generating an object corresponding to a search process component or an analyze process component of a work flow represented by the searching~~search~~, the analyzing~~analyze~~, and the selectively iterating~~selective iteration~~.

84. *(Previously presented)* The device of claim 83, wherein an object is generated using object definitions.

85. *(Previously presented)* The device of claim 84, wherein the object definitions comprise:

- a Boolean operation object definition;
- a corporate family operating object definition;
- an export object definition;
- a folder object definition;
- an import object definition;
- a list exploder operation object definition;
- a list object definition;
- a query object definition; or
- a patent family dedupe object definition.

86. *(Currently amended)* The device of claim 83, the operations further comprising:  
saving the object.

87. *(Currently amended)* The device of claim 83, the operations further comprising:  
re-executing the work flow by traversing the object.

88. *(Currently amended)* The device of claim 83, the operations further comprising:  
creating a new work flow by modifying the object.

89. *(Currently amended)* The device of claim 77, the operations further comprising:

annotating one of the first group, third group, or any portion of any document contained in the first group or the third group.

90. *(Currently amended)* The device of claim 77, wherein the first group of documents is from ~~at least one~~ or more of a database, an external source, or the Internet.

91. *(Currently amended)* A system for organizing and analyzing information, comprising:

a processor;

a memory; and

means for searching a first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the search functions comprise ~~at least one~~ or more of the following:

morphological functions;

lexical functions;

syntactic functions;

semantic functions;

discourse functions;

pragmatic functions;

full text functions;

Boolean functions; [[and]]or

clustering functions;

means for analyzing, with the processor, a third group of documents according to one or more selected analytical functions to output a fourth group of documents, wherein the third group of documents is not a subset of the first group of documents, and wherein the fourth group of documents is a subset of the third group of documents;

means for performing a selective iteration of ~~at least one~~ or more of the searching ~~[[and]]~~or the analyzing, wherein each iteration of the searching or the analyzing is performed using as input the second group of documents, the fourth group of documents, or output of a previous iteration;

means for performing an additional iteration of the searching using as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

means for performing an additional iteration of the analyzing using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

92. *(Currently amended)* A method for enabling a user to organize and analyze information, the method comprising:

initiating a search of a first group of documents according to one or more user-selected search functions executed by one or more ~~computers~~computing

devices to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

initiating analysis of a third group of documents according to one or more analytical functions executed by one or more ~~computers~~computing devices to output a fourth group of documents, wherein the third group of documents is not a subset of the first group of documents, and wherein the fourth group of documents is a subset of the third group of documents; and

initiating a selective iteration ~~at least one~~ or more of the searching step ~~[[and]]~~or the analyzing step, wherein each iteration of the searching step or the analyzing step is performed using as input the second group of documents, the fourth group of documents, or output of a previous iteration;

wherein said selective iteration includes:

initiating an additional iteration of the searching step using as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

initiating an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.